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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,651	02/19/2004	Marina Nicolas	02-GR2-261	4119

23334 7590 07/27/2006

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EXAMINER

HSIA, SHERRIE Y

ART UNIT	PAPER NUMBER
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2622

DATE MAILED: 07/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/782,651

Applicant(s)

NICOLAS, MARINA

Examiner

Sherrie Hsia

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-14, 16, 18 and 22-25 is/are rejected.
- 7) ☒ Claim(s) 15, 17, 19-21 and 26 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2/19/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Specification

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

2. Claims 5, 7, 9 and 13 are objected to because of the following informalities:

In claim 5, lines 2, 3, 6 and 7, all "a" should be --the--.

In claim 7, lines 2, 3 and 7, all "a" should be --the--.

In claim 9, lines 2, 3 and 7, all "a" should be --the--.

In claim 13, lines 2, 3 and 6, all "a" should be --the--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 22 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Kim (5943099).

As to claims 1, 2, 22 and 23, Kim discloses the claimed subject matter, the claimed producing a de-interlaced video output signal is met by Fig. 1, the claimed spatial interpolation is met by the spatial interpolator 110 (Fig. 1), the claimed temporal interpolation is met by the temporal interpolator 120 (Fig. 1), the claimed selection of the spatial interpolation and a temporal interpolation is met by the selector 140 (Fig. 1), the claimed detection of motion in a portion of a video image being interpolated is met by the correlator 130 (Fig. 1, column 3 line 61) and the claimed detection of a detail in the portion of the video image is met by the correlator 130 (Fig. 1, column 3 line 62-65) (Fig. 1, column 3 line 51-column 4 line 32).

4. Claims 1-14, 16, 18, 22-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Ledinh (5936676).

As to claims 1, 2, 18, 22 and 23, Ledinh discloses the claimed subject matter, the claimed producing a de-interlaced video output signal is met by Fig. 1, the claimed spatial interpolation is met by the interpolator 106 (Fig. 1), the claimed temporal interpolation is met by the temporal interpolator 136 (Fig. 1), the claimed selection of the spatial interpolation and a temporal interpolation is met by the MUX 131 and temporal adapter 138 (Fig. 1), the claimed detection of motion in a portion of a video image being interpolated is met by the motion detectors 134, 146 (Fig. 1) and the claimed detection of a detail in the portion of the video image is met by the edge detector 145 (Fig. 1) (Fig. 1, column 3 line 62-65) (Fig. 1, column 3 line 44-column 10 line 27).

As to claims 3-13, 24 and 25, the claimed limitations are disclosed by Ledinh (Fig. 1, 10, column 4 line 27-column 10 line 51).

As to claim 14, the claimed limitation is disclosed by Ledinh (column 6 lines 4-5).

Art Unit: 2622

As to claim 16, the claimed limitation is inherently disclosed by Ledinh (column 6 lines 4-5).

Allowable Subject Matter

5. Claims 15, 17, 19-21 and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Westerman (6262773) discloses a system for conversion of interlaced video to progressive video using edge correlation.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sherrie Hsia whose telephone number is (571) 272-7347.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571) 272-7593.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 2622


Any response to this action should be mailed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Or faxed to:

(571) 273-8300

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office whose telephone number is (571) 272-1000.


Sherrie Hsia
Primary Examiner
Art Unit 2622

SH
July 24, 2006